ELSEVIER

Journal of Organometallic Chemistry 631 (2001) 195

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Author Index of Volume 631

Alfredo Toscano, R., 99
Al-Juaid, S.S., 76
Anderson, C., 164
Antiñolo, A., 151
Antipin, M.Y., 1, 47
Antonaroli, S., 117
Arnanz, A., 19
Avent, A.G., 76

Bao, J., 188
Bardin, V.V., 54
Batsanov, A.S., 181
Belokon', A.I., 9
Bingham, A.L., 125
Blitz, J.P., 143
Borisov, Y.A., 9

Calderazzo, F., 110
Canseco-Melchor, G., 99
Cea-Olivares, R., 99
Cheng, Y., 94
Chien, J.C.W., 29
Cho, B.G., 36
Choi, B.-J., 16
Coles, M.P., 193
Cooper, N.J., 188
Creber, M.L., 125
Crespo, M., 164
Crociani, B., 117
Cross, G., 59

Davies, D.A., 59
Deeth, R.J., 194
Delgado, S., 19
Dillon, K.B., 181
Di Vona, M.L., 117
Dogan, Ö., 135
Domínguez, G., 19

Eaborn, C., 76
El-Hamruni, S.M., 76

Fan, D., 41
Farrar, D.H., 19
Faville, S.J., 41
Frohn, H.-J., 54

García-Montalvo, V., 99
Geib, S.J., 188
Gibson, V.C., 181
Goh, L.Y., 67
González-Velasco, J., 19
Goryukhina, S.E., 1

Haiduc, I., 67
Hawkes, S.A., 76
Henderson, W., 41
Hill, M.S., 76
Hitchcock, P.B., 76
Hopman, M., 76
Howard, J.A.K., 181
Humphrey, M.G., 139, 143
Hursthouse, M.B., 125

Jin, G.-X., 94
Jung, I.N., 36

Kamyshova, A.A., 9
Khrustalev, V.N., 47
Kim, E.H., 16
Kim, J.H., 36
Koyuncu, H., 135
Kreindlin, A.Z., 9
Kruglova, N.V., 9
Kuleshova, L.N., 47

Lee, S., 16
Leng, X., 87
Leong, W.K., 67
Lewkowski, J., 105
Licoccia, S., 117
Lin, Y., 94
Liu, S.-F., 175
Lo, K.M., 67
López-Solera, I., 151
Lough, A., 19
Lucas, N.T., 139, 143
Lyssenko, K.A., 1

Mangeney, P., 157
Marchetti, F., 110
Marcos, M.-L., 19
Maslennikova, V.I., 1
Moreno, C., 19
Moreno, M., 110

Nekrasov, Y.S., 9
Nicholson, B.K., 41
Nifantyev, E.E., 1
Notaras, E.G.A., 139, 143
Novikova, L.N., 47

Orrell, K.G., 125
Osborne, A.G., 125
Otero, A., 151

Pampaloni, G., 110
Peterleitner, M.G., 47
Prashar, S., 151
Pytkowicz, J., 157

Ranford, J.D., 41
Rausch, M.D., 29
Rochon, F.D., 164
Roland, S., 157
Rybinskaya, M.I., 9
Rzeźniczak, M., 105

Semeikin, O.V., 47
Sequeira, L.J., 181
Sevumyan, K.A., 47
Shen, Q., 94
Šik, V., 125
Silver, J., 59
Skowroński, R., 105
Smith, J.D., 76
Song, D., 175
Suh, I.L.-H., 16
Suo, Q.L., 87

Teeple, R., 19
Thomas, E.J., 29
Thomas, P., 59
Tumminia, F., 110

Ustynyuk, N.A., 47

Valyaev, D.A., 47
Vasyanina, L.K., 1

Wang, L., 87
Wang, R.-Y., 175
Wang, S., 175
Wang, Y., 87
Weng, Z., 67
Wen, L., 87
Wong, R.C.S., 67

Yao, J.W., 181
Yoo, B.R., 36
Yun, S.-S., 16

Zakrzewski, J., 105
Zhang, H., 87

PII: S0022-328X(01)01113-5

ELSEVIER

Journal of Organometallic Chemistry 631 (2001) 197–200

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Subject Index of Volume 631

Ab initio calculations
Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9
π-Acetylene complexes
Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19
Aldehyde
Synthesis and crystal structure of oxo-bridged binuclear titanium complex [{Ti(acac)$_2$Cl}{TiCp$_2$(Cl)}(μ-O)] and its catalytic reactions toward silation of aldehyde, 16
Alkyl
The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of [Nb(=O)Cp$_2$Me] (Cp = η^5-C$_5$H$_5$), 151
Alkylation
Friedel–Crafts alkylation of benzene with (polychloromethyl)-silanes, 36
Alkyne
Mixed-metal cluster chemistry. Part 17. Syntheses of WIr$_3$(CO)$_{11}$-(η-C$_5$H$_4$Me) and its reactivity towards diphenylacetylene, 143
Aluminum
Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: BPh$_2$(acac-azain) and Al(CH$_3$)(acac-azain)$_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175
Aluminum chloride
Friedel–Crafts alkylation of benzene with (polychloromethyl)-silanes, 36
Aminophosphonates
The first synthesis of ferrocenyl aminophosphonic esters, 105
Asymmetrical induction
The first synthesis of ferrocenyl aminophosphonic esters, 105
Asymmetric metallocenes
Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29
Azaindolyl
Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: BPh$_2$(acac-azain) and Al(CH$_3$)(acac-azain)$_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175

Biological activity
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41
Boranes
(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yldifluoroboranes, 54
Borates
(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yldifluoroboranes, 54
Boron
Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: BPh$_2$(acac-azain) and Al(CH$_3$)(acac-azain)$_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175
Bulky ligands
Crystal structures of organometallic compounds of lithium and magnesium containing the bulky ligands C(SiMe$_3$)$_2$-(SiMe$_2$X) X = Me, Ph, NMe$_2$, or C$_5$H$_4$N-2, 76

Carbonyl
Mixed-metal cluster chemistry. Part 17. Syntheses of WIr$_3$(CO)$_{11}$-(η-C$_5$H$_4$Me) and its reactivity towards diphenylacetylene, 143
Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of W$_3$Ir$_3$(μ$_4$-η^2-CO)(μ-CO)(CO)$_{10}$(η-C$_5$H$_4$Me)$_3$, 139
Carbonyl complexes
Facile displacement of cyclohexadienide ligand from K[Cr(η^5-C$_6$H$_7$)(CO)$_3$] to give crystallographically characterized *trans*-[Cr(CO)$_4$(PPh$_3$)$_2$], 188
Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19
Chiral ligands
Synthesis of chiral silver(I) diaminocarbene complexes from (*R*,*R*)-4,5-di-*tert*-butylimidazoline, 157
Chromium
Facile displacement of cyclohexadienide ligand from K[Cr(η^5-C$_6$H$_7$)(CO)$_3$] to give crystallographically characterized *trans*-[Cr(CO)$_4$(PPh$_3$)$_2$], 188
Cluster
Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of W$_3$Ir$_3$(μ$_4$-η^2-CO)(μ-CO)(CO)$_{10}$(η-C$_5$H$_4$Me)$_3$, 139
Clusters
Mixed-metal cluster chemistry. Part 17. Syntheses of WIr$_3$(CO)$_{11}$-(η-C$_5$H$_4$Me) and its reactivity towards diphenylacetylene, 143
Cobalt
Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19
Complexation
Complexes of P(III)-phosphocavitands with Groups VI and VII transition metal carbonyls, 1
Complexes
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110
Crystal structure
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41
Crystal structures
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of CpCr(CO)$_2$(S$_2$P(OR)$_2$), CpCr(S$_2$P-(OR)$_2$)$_2$ and Cr(S$_2$P(OR)$_2$)$_3$ (R = ^{i}Pr), 67

PII: S0022-328X(01)01114-7

Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181
Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[C_4H_8Te(S_2CNEt_2)\{(SPPh_2)_2N\}]$, $[C_4H_8Te(S_2CNC_5H_{10})\{(SPPh_2)_2N\}]$ and $[C_4H_8Te(S_2CNC_4H_8S)\{(SPPh_2)_2N\}]$, 99
Synthesis and structural characterization of $\{\mu_3\text{-}H(Ph)C{=}C\}FeCo_2(CO)_7dppm$ ($dppm = Ph_2PCH_2PPh_2$) and $\{\mu_3\text{-}H(Ph)C{=}C\}FeCo_2(CO)_{9-n}L_n$ [$L = PPh_3$ ($n = 1, 2$), $AsPh_3$ ($n = 1$)], 87
Synthesis of chiral silver(I) diaminocarbene complexes from (*R*,*R*)-4,5-di-*tert*-butylimidazoline, 157

Cyclohexadienyl
Facile displacement of cyclohexadienide ligand from $K[Cr(\eta^5\text{-}C_6H_7)(CO)_3]$ to give crystallographically characterized *trans*-$[Cr(CO)_4(PPh_3)_2]$, 188

Cyclometallated ligands
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41

Cyclometallation
Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[PtMe\{3\text{-}(R)\text{-}(C_{10}H_7)CHMeNCHC_4H_2S\}PPh_3]$, 164

Cyclopentadienyl
Mixed-metal cluster chemistry. Part 17. Syntheses of $WIr_3(CO)_{11}(\eta\text{-}C_5H_4Me)$ and its reactivity towards diphenylacetylene, 143
Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $W_3Ir_3(\mu_4\text{-}\eta^2\text{-}CO)(\mu\text{-}CO)(CO)_{10}(\eta\text{-}C_5H_4Me)_3$, 139

Cyclopentadienylchromium
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $CpCr(CO)_2(S_2P(OR)_2)$, $CpCr(S_2P(OR)_2)_2$ and $Cr(S_2P(OR)_2)_3$ ($R = {}^i$Pr), 67

2D-exchange NMR
Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117

Diaminocarbenes
Synthesis of chiral silver(I) diaminocarbene complexes from (*R*,*R*)-4,5-di-*tert*-butylimidazoline, 157

Dications 1,1′-$[M(C_5Me_4CH_2)_2]^{2+}$ and $[1,2(CH_2)_2C_5Me_3MC_5Me_5]^{2+}$ (M = Fe, Ru, Os)
Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9

(Dichloromethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

Diethylzinc catalysis
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135

Diffraction studies
Synthesis and crystal structure of oxo-bridged binuclear titanium complex $[\{Ti(acac)_2Cl\}\{TiCp_2(Cl)\}(\mu\text{-}O)]$ and its catalytic reactions toward silation of aldehyde, 16

Di-isopropyldithiophosphate
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $CpCr(CO)_2(S_2P(OR)_2)$, $CpCr(S_2P(OR)_2)_2$ and $Cr(S_2P(OR)_2)_3$ ($R = {}^i$Pr), 67

(Diphenylmethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36

1,3-Dipolar cycloadditions
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135

Dithiocarbamates
Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[C_4H_8Te(S_2CNEt_2)\{(SPPh_2)_2N\}]$, $[C_4H_8Te(S_2CNC_5H_{10})\{(SPPh_2)_2N\}]$ and $[C_4H_8Te(S_2CNC_4H_8S)\{(SPPh_2)_2N\}]$, 99

Dynamic NMR
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*-$[ReBr(CO)_3(PMTFA)]$ (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125

Electrochemistry
Synthesis and electrochemical study of cobalt carbonyl complexes of trimethylsilyl-substituted 1,3,5-triethynylbenzene, 19

15-Electron chromium(III)
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $CpCr(CO)_2(S_2P(OR)_2)$, $CpCr(S_2P(OR)_2)_2$ and $Cr(S_2P(OR)_2)_3$ ($R = {}^i$Pr), 67

Ferrocene
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135

Ferrocenecarboxaldehyde
The first synthesis of ferrocenyl aminophosphonic esters, 105

Ferrocene moiety
The first synthesis of ferrocenyl aminophosphonic esters, 105

1-Ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides
Synthesis and nonlinear optical properties of a range of 1-ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides, 59

Fluorenyl
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110

Fluxionality
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*-$[ReBr(CO)_3(PMTFA)]$ (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125

Gold
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41

Groups VI and VII transition metals
Complexes of P(III)-phosphocavitands with Groups VI and VII transition metal carbonyls, 1

Group VI complexes
Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181

Half-sandwich lanthanoid complexes
Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[Na(THF)_6]_2[Cp'_6Sm_6Se_{13}]$ and $[Li(THF)_4]_2[Cp_6Nd_6Se_{13}]$, 94

Imidazolinium salts
Synthesis of chiral silver(I) diaminocarbene complexes from (*R*,*R*)-4,5-di-*tert*-butylimidazoline, 157
Imido
The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of [Nb(=O)Cp_2Me] (Cp = η^5-C_5H_5), 151
Imidodithiodiphosphinates
Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of [$C_4H_8Te(S_2CNEt_2)${$(SPPh_2)_2N$}], [$C_4H_8Te(S_2CNC_5H_{10})${$(SPPh_2)_2N$}] and [$C_4H_8Te(S_2CNC_4H_8S)$-{$(SPPh_2)_2N$}], 99
Imido ligands
Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181
Interstitial selenium
Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[Na(THF)_6]_2[Cp'_6Sm_6Se_{13}]$ and $[Li(THF)_4]_2[Cp_6Nd_6Se_{13}]$, 94
Iridium
Mixed-metal cluster chemistry. Part 17. Syntheses of $WIr_3(CO)_{11}$-(η-C_5H_4Me) and its reactivity towards diphenylacetylene, 143
Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $W_3Ir_3(\mu_4$-η^2-CO)(μ-CO)$(CO)_{10}(\eta$-$C_5H_4Me)_3$, 139
Isotactic polypropylene
Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29

Kurtz powder technique
Synthesis and nonlinear optical properties of a range of 1-ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides, 59

Ligand replacement
Facile displacement of cyclohexadienide ligand from K[Cr(η^5-C_6H_7)$(CO)_3$] to give crystallographically characterized *trans*-[$Cr(CO)_4(PPh_3)_2$], 188
Lithium
Crystal structures of organometallic compounds of lithium and magnesium containing the bulky ligands $C(SiMe_3)_2$-($SiMe_2X$) X = Me, Ph, NMe_2, or C_5H_4N-2, 76
Luminescence
Syntheses and structures of new blue luminescent B(III) and Al(III) complexes: BPh_2(acac-azain) and $Al(CH_3)$(acac-azain)$_2$, acac-azain = 1-*N*-7-azaindolyl-1,3-butanedionato, 175

Magnesium
Crystal structures of organometallic compounds of lithium and magnesium containing the bulky ligands $C(SiMe_3)_2$-($SiMe_2X$) X = Me, Ph, NMe_2, or C_5H_4N-2, 76
Manganese phenylvinylidene complexes
Oxidative dehydrodimerization of manganese phenylvinylidene complex (η^5-C_5H_5)$(CO)_2$Mn=C=C(H)Ph. X-ray structure of phenyl(trityl)vinylidene complex (η^5-C_5H_5)$(CO)_2$-Mn=C=C(CPh_3)Ph, 47
Mass-spectrometry
Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9
Metallacycles
Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of [$C_4H_8Te(S_2CNEt_2)${$(SPPh_2)_2N$}], [$C_4H_8Te(S_2CNC_5H_{10})${$(SPPh_2)_2N$}] and [$C_4H_8Te(S_2CNC_4H_8S)$-{$(SPPh_2)_2N$}], 99
Mixed-metal clusters
Synthesis and structural characterization of {μ_3-H(Ph)-C=C}$FeCo_2(CO)_7$dppm (dppm = $Ph_2PCH_2PPh_2$) and {μ_3-H(Ph)C=C}$FeCo_2(CO)_{9-n}L_n$ [L = PPh_3 (n = 1, 2), $AsPh_3$ (n = 1)], 87
Monocations $[C_5Me_5MC_5Me_4CH_2]^+$
Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9

Neodymium
Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[Na(THF)_6]_2[Cp'_6Sm_6Se_{13}]$ and $[Li(THF)_4]_2[Cp_6Nd_6Se_{13}]$, 94
Niobium
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110
The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of [Nb(=O)Cp_2Me] (Cp = η^5-C_5H_5), 151
Niobocene
The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of [Nb(=O)Cp_2Me] (Cp = η^5-C_5H_5), 151
NMR
(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yldifluoroboranes, 54
Nonlinear optical properties
Synthesis and nonlinear optical properties of a range of 1-ferrocenyl(2-(4-alkyl)pyridiniumyl)ethylene iodides, 59

Octahydrofluorenyl
Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29
O-Silation
Synthesis and crystal structure of oxo-bridged binuclear titanium complex [{$Ti(acac)_2Cl$}{$TiCp_2(Cl)$}(μ-O)] and its catalytic reactions toward silation of aldehyde, 16
Oxidative addition
Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of [PtMe{3-(*R*)-($C_{10}H_7$)CHMeNCHC_4H_2S}PPh_3], 164
Oxidative dehydrodimerization
Oxidative dehydrodimerization of manganese phenylvinylidene complex (η^5-C_5H_5)$(CO)_2$Mn=C=C(H)Ph. X-ray structure of phenyl(trityl)vinylidene complex (η^5-C_5H_5)$(CO)_2$-Mn=C=C(CPh_3)Ph, 47
Oxo
The synthesis of alkyl niobocene imido complexes and the X-ray crystal structure of [Nb(=O)Cp_2Me] (Cp = η^5-C_5H_5), 151
Oxo-bridged binuclear titanium
Synthesis and crystal structure of oxo-bridged binuclear titanium complex [{$Ti(acac)_2Cl$}{$TiCp_2(Cl)$}(μ-O)] and its catalytic reactions toward silation of aldehyde, 16

Palladium(II)
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*-[$ReBr(CO)_3$(PMTFA)] (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125
Phosphocavitands
Complexes of P(III)-phosphocavitands with Groups VI and VII transition metal carbonyls, 1

Phosphorodithioato
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of $CpCr(CO)_2(S_2P(OR)_2)$, $CpCr(S_2P(OR)_2)_2$ and $Cr(S_2P(OR)_2)_3$ ($R = {}^iPr$), 67
Platinum
Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[PtMe\{3\text{-}(R)\text{-}(C_{10}H_7)CHMeNCHC_4H_2S\}PPh_3]$, 164
Platinum(IV)
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*-$[ReBr(CO)_3(PMTFA)]$ (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125
(Polychloromethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36
Polyfluoroalken-1-yl boron compounds
(Fluoroorgano)fluoroboranes and -fluoroborates: Part 3. Polyfluoroalken-1-yldifluoroboranes, 54
Polymerization
Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29
Pyrrolidine
Synthesis of ferrocene substituted pyrrolidine derivatives via Et_2Zn catalyzed 1,3-dipolar cycloaddition reactions of azomethine ylides, 135

Relative stabilities
Gas-phase formation of mono- and dications from iron-subgroup decamethylmetallocenes and their calculation by the density functional method, 9
$[Rh(\eta^2,\eta^2\text{-diolefin})(iminophosphine)]^+$
Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117
Rhenium(I)
Stereochemically non-rigid transition metal complexes of 2,6-bis(phenyliminomethyl)pyridine and derivatives. Crystal structure of *fac*-$[ReBr(CO)_3(PMTFA)]$ (PMTFA = 2,6-pyridylene-bis-(methylene-2-trifluoromethylaniline), 125

Samarium
Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[Na(THF)_6]_2[Cp'_6Sm_6Se_{13}]$ and $[Li(THF)_4]_2[Cp_6Nd_6Se_{13}]$, 94
Schiff bases
The first synthesis of ferrocenyl aminophosphonic esters, 105
Secondary M–F interactions
Synthesis and crystal structures of chromium and molybdenum complexes containing the 2,4,6-tris(trifluoromethyl)phenyl ligand, 181
Selenide metal complexes
Synthesis and characterization of polynuclear half-sandwich lanthanoid complexes $[Na(THF)_6]_2[Cp'_6Sm_6Se_{13}]$ and $[Li(THF)_4]_2[Cp_6Nd_6Se_{13}]$, 94
Semi-empirical calculations
Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117
Silver(I)
Synthesis of chiral silver(I) diaminocarbene complexes from (*R*,*R*)-4,5-di-*tert*-butylimidazoline, 157
Solution dynamics
Conformational flexibility and molecular dynamics of cationic diolefin–rhodium(I) complexes with iminophosphine ligands, 117
Stereoselectivity
Stereoselective oxidative addition of methyl iodide to chiral cyclometallated platinum(II) compounds derived from (*R*)-(+)-1-(1-naphthylethylamine). Crystal structure of $[PtMe\{3\text{-}(R)\text{-}(C_{10}H_7)CHMeNCHC_4H_2S\}PPh_3]$, 164
Structures
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110
Substitution reactions
Synthesis and structural characterization of $\{\mu_3\text{-}H(Ph)C{=}C\}\text{-}FeCo_2(CO)_7dppm$ ($dppm = Ph_2PCH_2PPh_2$) and $\{\mu_3\text{-}H(Ph)C{=}C\}FeCo_2(CO)_{9-n}L_n$ [$L = PPh_3$ ($n = 1, 2$), $AsPh_3$ ($n = 1$)], 87

Tantalum
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110
Tellurium
Synthesis and spectroscopic characterization of new mixed ligand organotellurium(IV) compounds employing dithiocarbamates and imidotetraphenyldithiodiphosphinates. Crystal structure of $[C_4H_8Te(S_2CNEt_2)\{(SPPh_2)_2N\}]$, $[C_4H_8Te(S_2CNC_5H_{10})\{(SPPh_2)_2N\}]$ and $[C_4H_8Te(S_2CNC_4H_8S)\{(SPPh_2)_2N\}]$, 99
Tetrahydrofluorenyl
Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29
Thiosalicylate
Gold(III) thiosalicylate complexes containing cycloaurated 2-arylpyridine, 2-anilinopyridine and 2-benzylpyridine ligands, 41
(Trichloromethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36
(Triphenylmethyl)silanes
Friedel–Crafts alkylation of benzene with (polychloromethyl)silanes, 36
Triphenylphosphine
Facile displacement of cyclohexadienide ligand from $K[Cr(\eta^5\text{-}C_6H_7)(CO)_3]$ to give crystallographically characterized *trans*-$[Cr(CO)_4(PPh_3)_2]$, 188
Tungsten
Mixed-metal cluster chemistry. Part 17. Syntheses of $WIr_3(CO)_{11}(\eta\text{-}C_5H_4Me)$ and its reactivity towards diphenylacetylene, 143
Mixed-metal cluster chemistry. Part 18. Synthesis and crystal structure of $W_3Ir_3(\mu_4\text{-}\eta^2\text{-}CO)(\mu\text{-}CO)(CO)_{10}(\eta\text{-}C_5H_4Me)_3$, 139

X-ray structure
Oxidative dehydrodimerization of manganese phenylvinylidene complex $(\eta^5\text{-}C_5H_5)(CO)_2Mn{=}C{=}C(H)Ph$. X-ray structure of phenyl(trityl)vinylidene complex $(\eta^5\text{-}C_5H_5)\text{-}(CO)_2Mn{=}C{=}C(CPh_3)Ph$, 47

Zirconium
Fluorenyl derivatives of early transition elements: a synthetic and structural study, 110
Zirconocenes
Novel octahydro- and tetrahydro-fluorenyl containing C_1 symmetric zirconocenes for the stereoregular polymerization of propylene, 29